

AMENDMENT TO THE CLAIMS

Please **AMEND** claim 1 as follows.

Please **CANCEL** claim 2 as follows.

Please **ADD** claims 4-8 as follows.

A copy of all pending claims and a status of the claims is provided below.

1. (Currently Amended) An electric parts drive circuit comprising:

a first field-effect transistor including in parallel a first parasitic diode for allowing an electric current flow into a plus line and provided between the plus line to be connected to a plus terminal of a battery and an electric part;

a second field-effect transistor for reverse connection protection including in parallel a second parasitic diode for allowing an electric current flow from the first field-effect transistor into the electric part, the first field-effect transistor and the second field-effect transistor being connected in series in order from the plus line to the electric part;

a third field-effect transistor including in parallel a third parasitic diode for allowing an electric current flow into the electric part and provided between a minus line to be connected to a minus terminal of the battery and the electric part;

a failure diagnosis switch unit for switching between conduction and shutoff between a drain of the second field-effect transistor and the plus terminal of the battery; and

a switch control unit for controlling switching between conduction and shutoff of the first to third field-effect transistors and the failure diagnosis switch unit,

wherein the switch control unit diagnoses a failure of the second field-effect transistor based on the voltage between the first and second field-effect transistors responsive to switching between conduction and shutoff of the second field-effect transistor in a state that the first and third field-effect transistors are shut off and the failure diagnosis switch unit is brought into conduction.

wherein the failure diagnosis switch unit includes:

a PNP transistor having a collector connected via a first resistor between the plus terminal of the battery and the drain of the second field-effect transistor;
second resistors and an NPN transistor connected in series between the plus terminal of the battery and ground; and
third resistors connected in series between the switch control unit and ground.

wherein a connection point of the second resistors is connected to a base of the PNP transistor and a connection point of the third resistors is connected to a base of the NPN transistor.

2. (Canceled)

3. (Original) The electric parts drive circuit as set forth in Claim 1, wherein the electric part is a solenoid in an electromagnetic valve of a brake fluid pressure controller for a vehicle.

4. (New) An electric parts drive circuit, comprising:
 - a first field-effect transistor including in parallel a first parasitic diode;
 - a second field-effect transistor for reverse connection protection including in parallel a second parasitic diode;
 - a third field-effect transistor including in parallel a third parasitic diode;

wherein the first field-effect transistor, the second field-effect transistor, an electric part, and the third field effect-transistor are connected in series between a plus terminal and a minus terminal of a battery;

a failure diagnosis switch unit between a drain of the second field-effect transistor and the plus terminal of the battery; and

a switch control unit for controlling switching between conduction and shutoff of the first field-effect transistor, the second field-effect transistor, the third field effect-transistor, and the failure diagnosis switch unit,

wherein the switch control unit diagnoses a failure of the second field-effect transistor.

5. (New) The electric parts drive circuit as set forth in Claim 4, wherein the failure diagnosis switch unit includes:
 - a PNP transistor having a collector connected via a first resistor between the plus terminal of the battery and the drain of the second field-effect transistor;
 - second resistors and an NPN transistor connected in series between the plus terminal of the battery and ground; and

third resistors connected in series between the switch control unit and ground, wherein a connection point of the second resistors is connected to a base of the PNP transistor and a connection point of the third resistors is connected to a base of the NPN transistor.

6. (New) The electric parts drive circuit as set forth in Claim 4, wherein the electric part is a solenoid in an electromagnetic valve of a brake fluid pressure controller for a vehicle.

7. (New) The electric parts drive circuit as set forth in claim 4, wherein the switch control unit diagnoses a failure of the second field-effect transistor based on a voltage between the first and second field-effect transistors.

8. (New) The electric parts drive circuit as set forth in claim 4, wherein to diagnose a failure of the second field-effect transistor, the switch control unit shuts off the first and third field-effect transistors and brings the failure diagnosis switch unit into conduction, and switches the second field-effect transistor between conduction and shutoff.